

Appl. No. 09/919,439

Amendment dated Feb. 18, 2005

Reply to Office action of Nov. 18, 2005

Docket No. BCC-2000-0079 (214)

**Amendment to the Claims:**

This listing of claims will replace all prior versions and listings of claims in the instant application:

**Listing of Claims:**

1. (Currently Amended) A method for providing dynamic workload transition in an application server for an e-business system, comprising:
  - detecting an overload condition in the e-business system;
  - ~~reducing~~ causing a first reallocation of at least a portion of system resources allocated to a first set of workload tasks in the e-business system from said first set of workload tasks to a second set of workload tasks in response to detecting the overload condition, wherein processing said second set of workload tasks requires less system resources than processing said first set of workload tasks;
  - ~~allocating at least part of said reduced system resources to a second set of lighter workload tasks in the e-business system; and~~
  - ~~if adequate resources in the e-business system become available said overload condition subsequently abates and if said first set of workload tasks require processing, allocating said adequate resources to said first set of workload tasks~~ performing a second reallocation of system resources to said first set of workload tasks.
2. (Original) The method according to claim 1, wherein said detecting step further comprises monitoring system parameters in the e-business system; and
  - analyzing said monitored system parameters to determine when said overload condition occurs in the e-business system.
3. (Original) The method according to claim 2, wherein said monitored system parameters comprises CPU utilization, disk I/O and memory utilization.

Appin. No. 09/919,439

Amendment dated Feb. 18, 2005

Reply to Office action of Nov. 18, 2005

Docket No. BCC-2000-0079 (214)

4. (Currently Amended) A method for providing dynamic workload transition in an application server for an e-business system, comprising:
- receiving a first work request;
  - determining ~~[[the]]~~ a workload of said first work request;
  - comparing said ~~determined~~ workload of said first work request to available system resources to determine if ~~the performance of~~ performing said workload of said first work request is capable of causing a system overload condition; and
  - if performing said workload of said first work request is capable of causing a system overload condition, transitioning to a second lighter work request, said second lighter work request having a lighter workload requiring less system resources, thereby preventing said system overload condition.
5. (Currently Amended) The method according to claim 4, further comprising analyzing system parameters to determine whether performing said ~~[[first]]~~ workload of said first work request causes said system overload condition.
6. (Original) The method according to claim 5, wherein said system parameters comprises CPU utilization, disk I/O and memory utilization.
7. (Original) The method according to claim 5, further comprising, reporting said system parameters to a workload driver.
8. (Currently Amended) A method for providing dynamic workload transition in an application server for an e-business system, comprising:
- processing a workload assigned to a workload driver;

Appin. No. 09/919,439

Amendment dated Feb. 18, 2005

Reply to Office action of Nov. 18, 2005

Docket No. BOC-2000-0079 (214)

monitoring system resources to detect an overload condition while processing said workload;

allocating processing resources to a lighter workload when said workload driver detects a system overload condition caused by said processed workload during said monitoring step; and

if said processed workload still ~~require~~ requires processing, transitioning to said processed workload from said lighter workload upon availability of adequate processing resources.

9. (Currently Amended) A system for providing dynamic workload transition in an e-business system, comprising:

an application server for receiving work requests and for processing workloads identified by said work requests;

a workload driver for handling workload management of said application server, said handling comprising diminishing processing of a currently processed workload which causes an overload condition, and initiating the processing of a lighter workload, said lighter workload having a lighter load than said ~~diminished~~ currently processed workload; and

a status driver for reporting system data to said workload driver, said system data providing information regarding the existence of said overload condition.

10. (Currently Amended) A machine readable storage having stored thereon, a computer program having a plurality of code sections, said code sections executable by a machine for causing the machine to perform the steps of:

detecting an overload condition in an e-business system, said detecting step for providing dynamic workload transition in an application server for the e-business system;

~~reducing~~ causing a reallocation of at least a portion of system resources allocated to a first set of workload tasks in the e-business system from said first set of workload tasks to a

Appln. No. 09,919,439

Amendment dated Feb. 18, 2005

Reply to Office action of Nov. 18, 2005

Docket No. BCIC-2000-0079 (214)

second set of workload tasks, processing of said second set of workload tasks requiring less system resources;

~~allocating at least part of said reduced e-business system resources to a second set of lighter workload tasks in the system; and~~

if adequate resources in the e-business system become available and if said first set of workload tasks still require processing, ~~allocating said adequate resources~~ causing a second reallocation of system resources to said first set of workload tasks.

11. (Original) The machine readable storage according to claim 10, wherein said detecting step further comprises:

monitoring system parameters within the e-business system; and

analyzing said monitored system parameters to determine when said overload condition occurs in the e-business system.

12. (Original) The machine readable storage according to claim 11, wherein said monitored system parameters comprises CPU utilization, disk I/O and memory utilization.

13. (Currently Amended) A machine readable storage having stored thereon, a computer program having a plurality of code sections, said code sections executable by a machine for causing the machine to perform the steps of:

receiving a first work request, said receiving step for providing dynamic workload transition in an application server for an e-business system;

determining a workload of said first work request;

comparing said ~~determined~~ workload of said first work request to available system resources to determine if ~~the performance of performing said workload of said first work request~~ is capable of causing a system overload condition; and

Appin. No. 09,919,439

Amendment dated Feb. 18, 2005

Reply to Office action of Nov. 18, 2005

Docket No. BC-C-2000-0079 (214)

if said workload of said first work request is capable of causing a system overload condition, transitioning to a second lighter work request, said second lighter work request having a lighter workload requiring less system resources, thereby preventing said system overload condition.

14. (Currently Amended) The machine readable storage according to claim 13, further comprising analyzing system parameters to determine whether performing said workload of said first workload work request causes said system overload condition.

15. (Original) The machine readable storage according to claim 14, wherein said system parameters comprises CPU utilization, disk I/O and memory utilization.

16. (Original) The machine readable storage according to claim 14, further comprising, reporting said system parameters to a workload driver.

17. (Original) A machine readable storage having stored thereon, a computer program having a plurality of code sections, said code sections executable by a machine for causing the machine to perform the steps of:

processing a workload assigned to a workload driver, said processing for providing a dynamic workload transition in an e-business system;

monitoring system resources to detect an overload condition while processing said workload;

allocating processing resources to a lighter workload when said workload driver detects a system overload condition caused by said processed workload during said monitoring step; and

Appin. No. 09/919,439

Amendment dated Feb. 18, 2005

Reply to Office action of Nov. 18, 2005

Docket No. BCC-2000-0079 (214)

if said processed workload still ~~require~~ requires processing, transitioning to said processed workload from said lighter workload upon availability of adequate processing resources.